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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/727,758	12/03/2003	John A. Helgenberg	TN323	7620	
7590 12/17/2004		EXAMINER			
Unisys Corporation Attn: Lise A. Rode			CHANG, Y	CHANG, YEAN HSI	
Unisys Way, MS/E8-114			ART UNIT	PAPER NUMBER	
Blue Bell, PA 19424-0001			2835	,	
		DATE MAILED: 12/17/200	DATE MAILED: 12/17/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
	10/727,758	HELGENBERG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Yean-Hsi Chang	2835			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 03 D	ecember 2003.				
•	·				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7,9-15 and 17-29 is/are rejected. 7) ☐ Claim(s) 8 and 16 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on <u>03 December 2003</u> is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received: 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date					

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DETAILED ACTION

Claim Objections

1. Claim 16 is objected to because of the following informalities: The preamble of claim 16 is not agree with claim 15 from which it depends. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Mayer (US 6,305,556 B1).

Mayer teaches an arm assembly (100, fig. 3) for holding a cable (108) interconnecting a computer system (fig. 2) and a chassis (106) that may be extended and retracted with respect to the computer system (fig. 2), said arm assembly comprising: a plurality of arm portions (300 and 302), each of said arm portions comprising a side surface (not labeled) and a base surface (not labeled) together at least partially defining a channel (fig. 2) configured to receive the cable (fig. 2), said arm

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portions being hingedly connected to one another (fig. 2) thereby facilitating extension and retraction of said arm assembly when the chassis is extended and retracted with respect to the computer system, wherein a ratio of a height of said side surface to a width of said base surface is at least about 4 to 1 (see fig. 3).

4. Claims 20 and 23-24 are rejected under 35 U.S.C. 102(b) as being anti by Kim et al. (US 6,392,149 B1).

Kim teaches a support assembly (fig. 3) for supporting a chassis (102) that may be extended and retracted with respect to a frame (302), said support assembly comprising: a rail system (116) on each side of the frame, including a chassis portion (inner portion) and a frame portion (outer portion, see fig. 3), the chassis portion being coupled to the chassis and slidingly moveable with respect to said frame portion between a retracted position (not shown) when the chassis is retracted with respect to the frame and an extended position (fig. 3) when said chassis is extended with respect to the frame, said frame portion being configured to be coupled to the frame (fig. 3), and a plurality of arm portions (202 and 206) hingedly connected to one another and extending between said chassis portion of said rail system and said frame portion of said rail system (fig. 3) such that said arm portions are retracted with respect to one another when the chassis is retracted with respect to the frame, and said arm portions are extended with respect to one another when the chassis is extended with respect to the frame, each of said arm portions defining a channel (218) configured to receive a cable (220).

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-6, 9-16 and 25-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al. in view of McAnally et al. (US 6,070,742).

Kim teaches a cable routing system (112, fig. 3) facilitating interconnection between a computer system (fig. 3) and a chassis (102) that may be extended and retracted with respect to the computer system along at least one support member (116), said cable routing system comprising: a folding arm assembly (112) supported by the at least one support member such that said folding arm assembly is moveable between a retracted position (not shown) when the chassis is retracted with respect to the computer system and an extended position (fig. 3) when the chassis is extended with respect to the computer system, said folding arm assembly defining at least one channel (218) for routing a cable (220) between the chassis and the computer system (claims 1 and 9); wherein the support member includes an chassis support member (not labeled) slidingly engaged with a frame support member (not labeled) (claims 2 and 10); wherein said folding arm assembly is coupled to the frame support member (claims 3 and 11); wherein said folding arm assembly includes at least two arm portions (fig. 3,

not labeled) hingedly coupled to one another, each of said arm portions defining a portion of said channel (claims 4-5 and 12-13); wherein at least one of said arm portions is hingedly coupled to the support member, said one and said another of said arm portions being hingedly coupled to one another (fig. 3) (claims 6 and 14); and a method of routing a cable claimed in claims 25-29.

Kim fails to teaches a strain relief supported by the at least one support member and positioned between said folding arm assembly and a termination point of the cable such that said strain relief substantially stabilizes the cable at the termination point.

McAnally teaches a cable routing system (200, fig. 12) comprising a strain relief (230) having tie-raps (760) to relief strains of the cable during extension and retraction.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Kim with the strain relief taught by McAnally for minimizing trains of the cables during extension and retraction of the chassis.

7. Claims 7 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim et al. in view of Mayer et al.

Kim discloses the claimed invention except indicating the support member including two rail systems, and the cable routing system comprising a clip coupled to each of the rail systems, and a strut extending between the clips.

Mayer teaches a cable arm assembly as stated above, comprising: at least one support member (312, fig. 4) including two rail systems (upper and lower), and a cable

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routing system (100) comprising rail clips (at upper and lower portions of 314) coupled to the rail systems, and a strut (316) extending between the clips.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Kim with the clips and strut taught by Mayer for showing how the cable arm assembly and the support member are coupled.

8. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mayer in view of McAnally et al.

Mayer discloses the claimed invention except the arm assembly being configured for pivotal engagement with a strain relief positioned between the arm assembly and the chassis.

McAnally teaches an arm assembly (200, fig. 12) comprising a strain relief (230) being configured for pivotal engagement between the arm assembly and a chassis (240) having tie-raps (760) to relief strains of the cable during extension and retraction.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Mayer with the strain relief taught by McAnally for minimizing trains of the cables during extension and retraction of the chassis.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mayer.
 Mayer discloses the claimed invention except a ratio of a height of the side

surface to a side surface of the arm assembly being approximately 5-1/3 to 1.

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It would have been an obvious matter to manufacture an arm assembly having a ratio of a height of the side surface to a side surface of the arm assembly being approximately 5-1/3 to 1, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. MPEP §2144.04, IV A.

Allowable Subject Matter

- 10. Claims 8 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 11. The following is a statement of reasons for the indication of allowable subject matter: The best prior art of record, Mayer (US 6,305,556 B1), Kim et al. (US 6,392,149 B1), and McAnally et al. (US 6,070,742), taken alone or in combination, fails to teach or reasonably suggest a rail clip coupled to a support member of a cable routing system of a computer system, being configured for compression and expansion in at least one dimension thereof through actuation of a spring loaded mechanism included in said rail clip such that each of said rail clips is coupled to a respective one of rail systems the support member by engaging each of said spring loaded mechanisms with a respective aperture of each of said rail systems as set forth in claims 8 and 16.

Correspondence

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (571) 272-

2038. The examiner can normally be reached on 07:30 - 16:00.

If attempts to reach the examiner by telephone are unsuccessful, the Art Unit phone number is (571) 272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431 for regular communications and for After Final communications. There are RightFax numbers and provide the fax sender with an auto-reply fax verifying receipt by the USPTO: Before-Final (703-872-9318) and After-Final (703-872-9319).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8558.

Yean-Hsi Chang Primary Examiner

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December 13, 2004